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June 25, 2009

Attached are the slides for the June 4, 2009 NRC Public Meeting with the New Plant Working Group.

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The NRC New Reactor Program: A PATH FORWARD

NEI New Plant Working Group
June 4, 2009

David B. Matthews, Director
Division of New Reactor Licensing
Office of New Reactors

Nuclear Reactor Safety
(Dollars in Millions)

	FY 2009	FY 2010
New Reactors	$243.5	$248.3
Licensing Tasks	238.6	237.4
License Renewal	33.2	35.7
International Activities	11.9	15.1
Reactor Oversight	236.8	242.1
Incident Response	24.3	21.1
*Total	$788.3	$799.8

* Numbers may not add due to rounding.

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New Reactor Applications Under Review [Aug 2008]

- 11 Combined License Applications
  - Calvert Cliffs, South Texas, Bellefonte, North Anna, Lee, Harris, Grand Gulf, Vogtle, Summer, Callaway, and Levy County (w/LWA)
- 3 Design Certification (DC) Applications
  - General Electric Economic and Simplified Boiling Water Reactor (ESBWR)
  - AREVA Evolutionary Power Reactor (EPR)
  - Mitsubishi U.S. Advanced Pressurized Water Reactor (US APWR)
- 1 Amended DC Application
  - Westinghouse AP1000 Certification Amendment
- 1 Early Site Permit/Limited Work Authorization
  - Vogtle

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New Reactor Applications [June 2009]

- 18 Combined License Applications Received To Date
- 3 Design Certification (DC) Applications
  - General Electric Economic and Simplified Boiling Water Reactor (ESBWR)
  - AREVA Evolutionary Power Reactor (EPR)
  - Mitsubishi U.S. Advanced Pressurized Water Reactor (US APWR)
- 1 Amended DC Application
  - Westinghouse AP1000 Certification Amendment
- 1 Early Site Permit/Limited Work Authorization
  - Vogtle

Short-Term Outlook to 2020

- First wave (4 to 8 reactors) expected to start commercial operation 2016
- Potential for 15 to 18 new nuclear reactor plants on-line by 2020
- Build rate and number of plants will depend on success of first wave

GOALS

From this point forward, the New Reactor Program goals are:

I. By the end of FY2011,
the NRC will have completed the review of

- *Design Certifications,*
- *Limited Work Authorizations, and*
- *Combined Licenses*

– needed for each of the new nuclear projects that are expected to start operating during CY2016-CY2017.

GOALS

From this point forward, the New Reactor Program goals are:

II. By the end of FY2011, the NRC will

- *have developed the necessary construction inspection and support infrastructure (inspectors and training programs) and*
- *have under development additional support infrastructure (license examination programs, simulators, etc.) to implement the construction inspection, operator licensing, and construction oversight programs*

needed for all of the new nuclear projects that are expected to load fuel during CY2016-CY2017.

GOALS

From this point forward, the New Reactor Program goals are:

III. By the end of FY2011,
the NRC will have established
an Advanced Reactor Organization

- *capable of conducting*
  - *the infrastructure development,*
  - *pre-application review, and*
  - *generic licensing activities needed to support additional reactor technologies as they develop.*

GOALS

From this point forward, the New Reactor Program goals are:

IV. Provided the above expectations can be met, the NRC will assign available resources to the review of

- *Design Certifications,*
- *Early Site Permits,*
- *Limited Work Authorizations, and*
- *Combined Licenses*

that will be needed for the nuclear projects that are expected to undertake construction with the intent of operating during the CY2016-CY2020 time frame.

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Concluding Reminders

Keep the NRC fully and promptly informed.

Project status and schedules can be tracked at www.nrc.gov by clicking on "Nuclear Reactors" and then "New Reactors."

HELP US HELP YOU